

REMARKS

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "an oscillator having a tuning input, and an output with a tunable frequency responsive to the tuning input; a mixer to mix the oscillator output with a second signal to produce a mixed signal; and a phase detector outputting an error signal which is a function of a phase difference between the mixed signal and an input signal, the error signal being applied to the tuning input, wherein the oscillator comprises a voltage controlled oscillator, the tuning input being responsive to a voltage of the error signal, the CMOS phase lock loop further comprising a bandpass filter to filter the mixed signal before being applied to the phase detector, the filtered mixed signal comprising a difference frequency between the tuned frequency of the oscillator output and a frequency of the second signal, a limiter to limit the filtered mixed signal from the filter before being applied to the phase detector, a charge pump disposed between the phase detector and the oscillator, and a loop filter disposed between the charge pump and the oscillator" as set forth in claim 1.

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "oscillator means for generating a first signal having a tunable frequency, the oscillating means comprising tuning means for tuning the frequency of the first signal; mixer means for mixing the first signal with a second signal to produce a mixed signal; and detector means for detecting a phase difference between the mixed signal and an input signal, and generating an error signal which is a function of the phase difference, the tuning means being responsive to the error signal, wherein the oscillator means comprises a voltage controlled oscillator, the tuning means being responsive to a voltage of the error signal, the CMOS phase lock loop further comprising filter means for filtering the mixed signal before being applied to the detector means, the filtered mixed signal comprising a difference frequency between the tuned frequency of the first signal and a frequency of the second signal, means for limiting the filtered mixed signal from the filter means before being applied to the detector means, current means for sourcing current to the tuning means responsive to the error signal, and means for filtering the current sourced error signal from the current means before being applied to the tuning means" as set forth in claim 15.

FROM McANDREWS, HELD, & MALLOY

(THU) 6. 1' 06 12:29/ST. 12:28/NO. 4861050220 P 4

Appln. No.:09/698,498

Comments dated Jun. 1, 2006

In Reply to Notice of Allowability of Mar. 2, 2006

Applicants respectfully submit that the Examiner's Statement might imply that the dependent claims are only allowable because they depend from allowed independent claims. However, the Examiner's Statement does not discuss any of the other elements of the claimed subject matter, in particular, those additional elements recited in the dependent claims which may render the dependent claims independently allowable in view of the specification, prosecution file history and/or the documents made of record, either alone or in combination.

Applicants respectfully submit that the Examiner's Statement presents only some of the reasons for allowance of the claims, and that other reasons also exist for allowing the claims such as, for example, those set forth more completely in the record as a whole. This interpretation is consistent with M.P.E.P. § 1302.14, which states that any statement of reasons for allowance "[i]s not intended to necessarily state all the reasons for allowance or all the details why claims are allowed and should not be written to specifically or impliedly state all the reasons for allowance are set forth." M.P.E.P. § 1302.14.

Finally, Applicants agree with the Examiner that claims 1, 15 and 29-48 are allowable in view of all of the documents made of record, either alone or in combination. However, Applicants do not necessarily agree or disagree with the Examiner's characterization of the documents made of record, either alone or in combination, or the Examiner's characterization of recited claim elements. In closing, Applicants respectfully reserve the right to argue the characterization of the documents of record, either alone or in combination, or the characterization of the recited claim elements should that need arise in the future.

If the Examiner has questions, or if Applicants can be of assistance, the Examiner is invited and encouraged to contact Applicants' representative at the below-listed telephone number.

FROM McANDREWS, HELD, & MALLOY

(THU) 6. 1'06 12:30/ST. 12:28/NO. 4861050220 P 5

Appln. No. 09/698,498

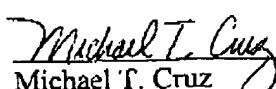
Comments dated Jun. 1, 2006

In Reply to Notice of Allowability of Mar. 2, 2006

The Commissioner is hereby authorized to charge additional fees or credit overpayments to the deposit account of McAndrews, Held & Malloy, Account No. 13-0017.

Dated: June 1, 2006

Respectfully submitted,


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